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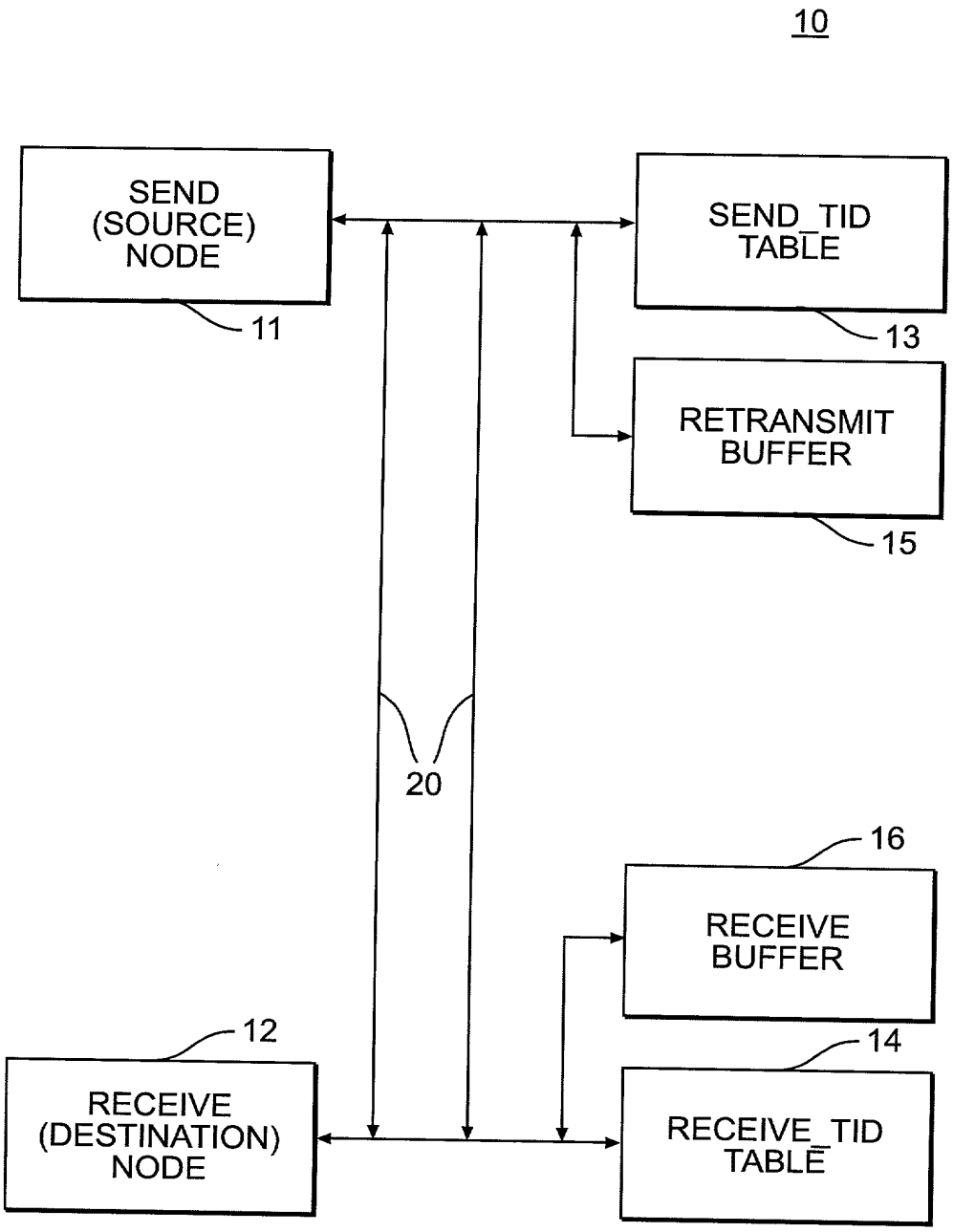

FIG. 1

20060905250701

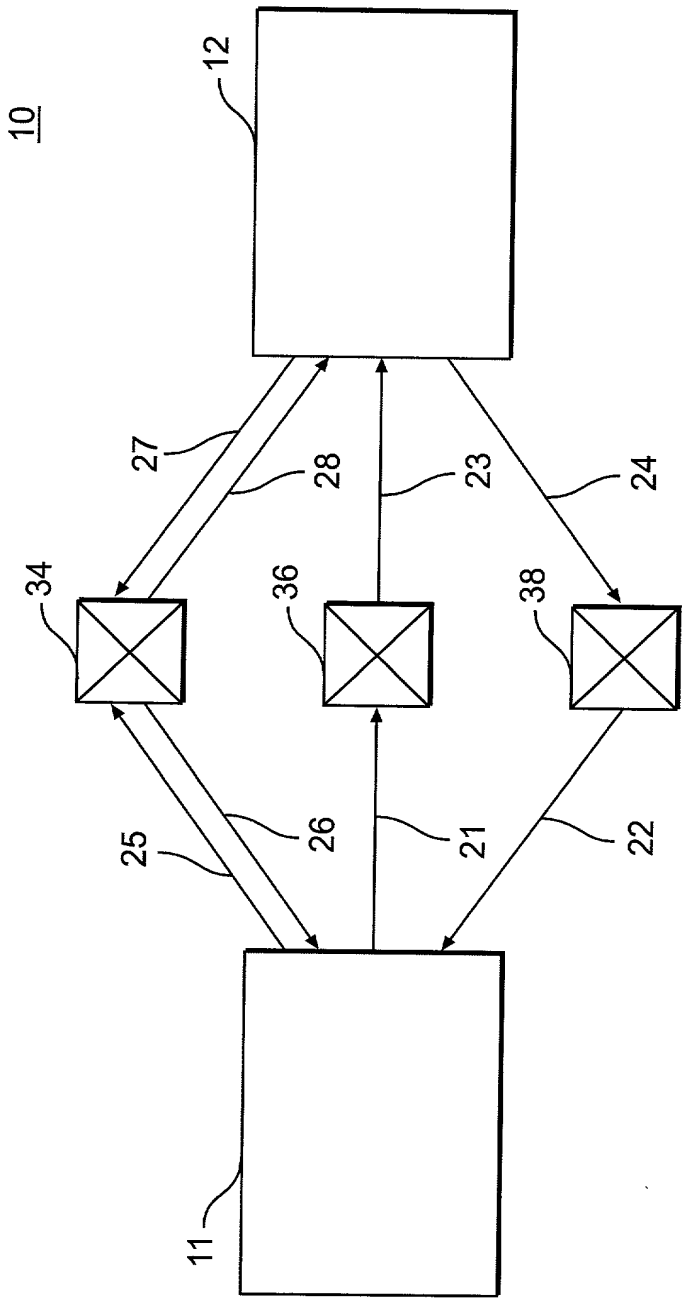

FIG. 2

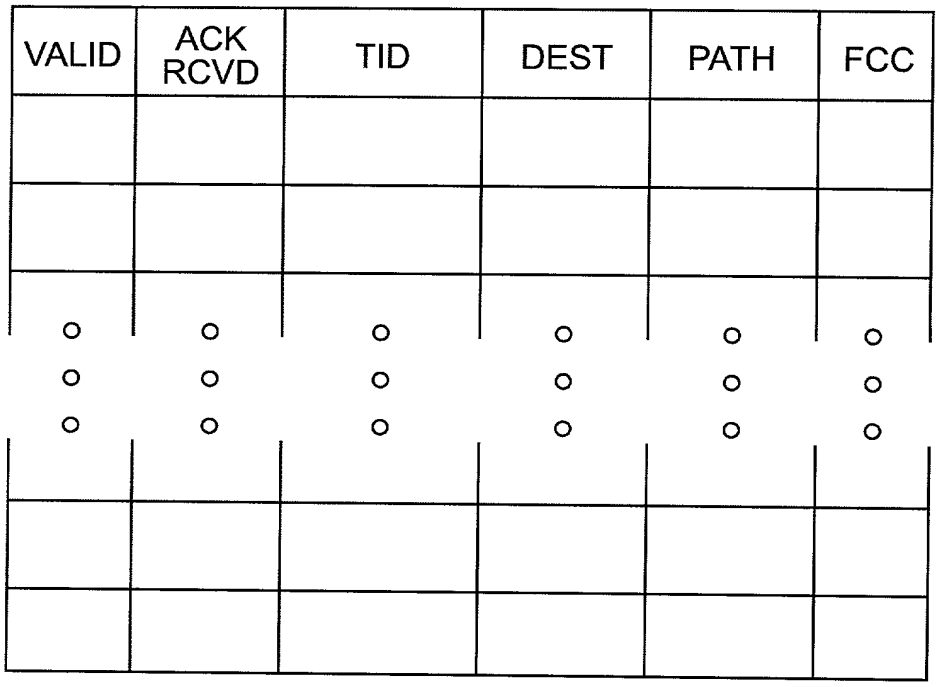

FIG. 3A

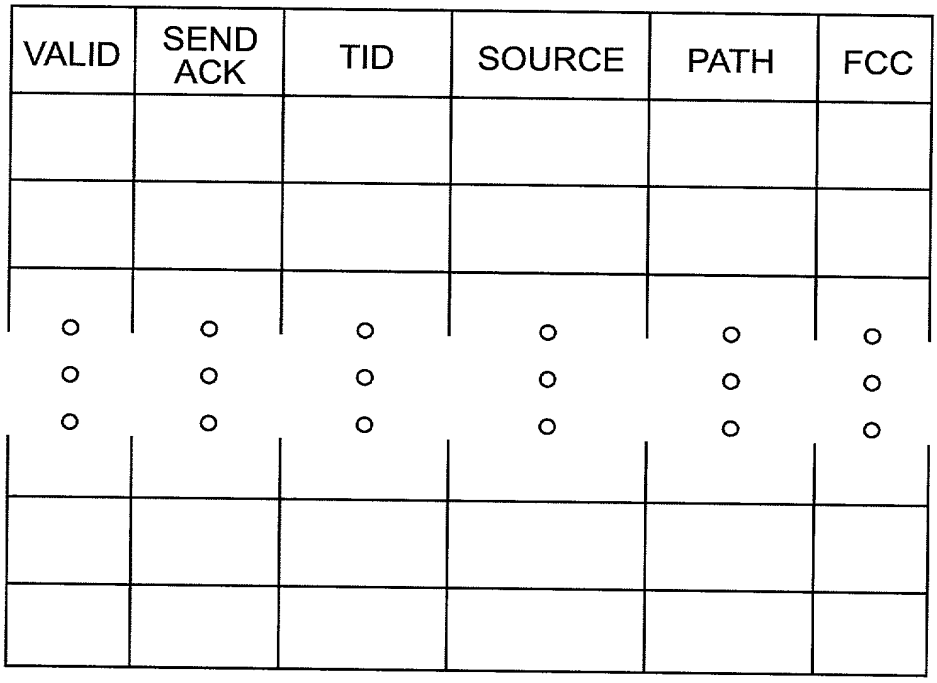

FIG. 3B

2005-05-26 10:55:04

20060905220047

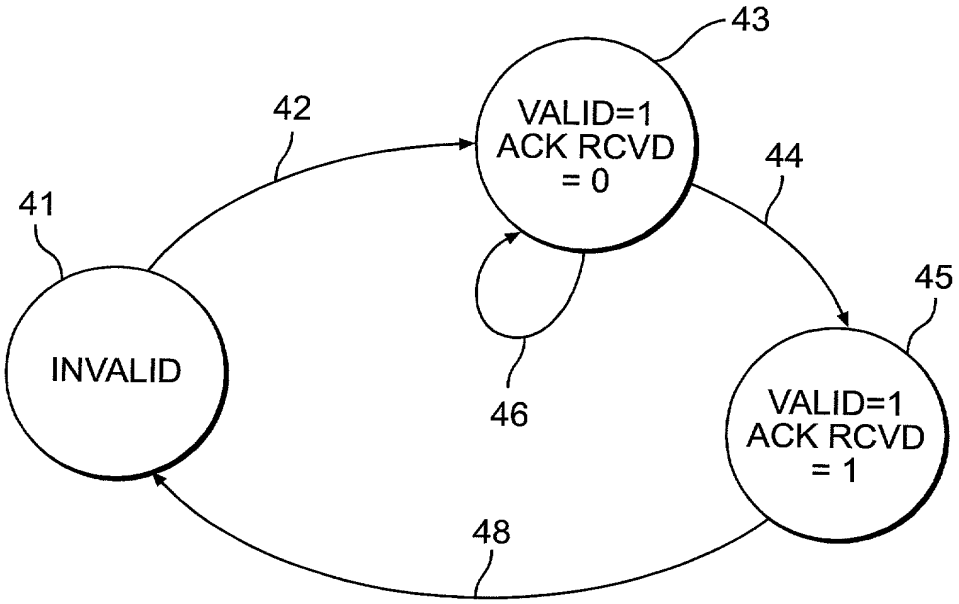

FIG. 4A

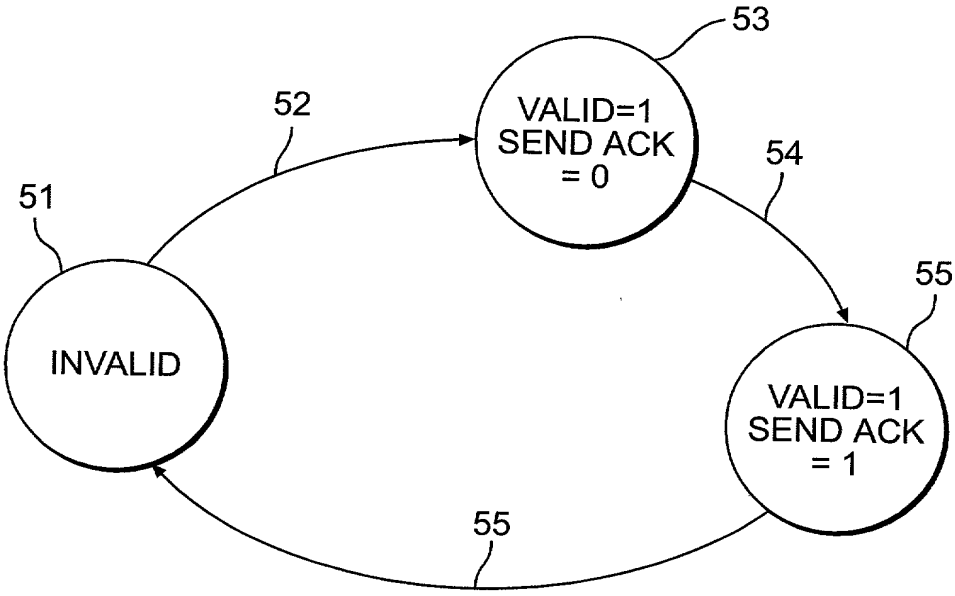

FIG. 4B

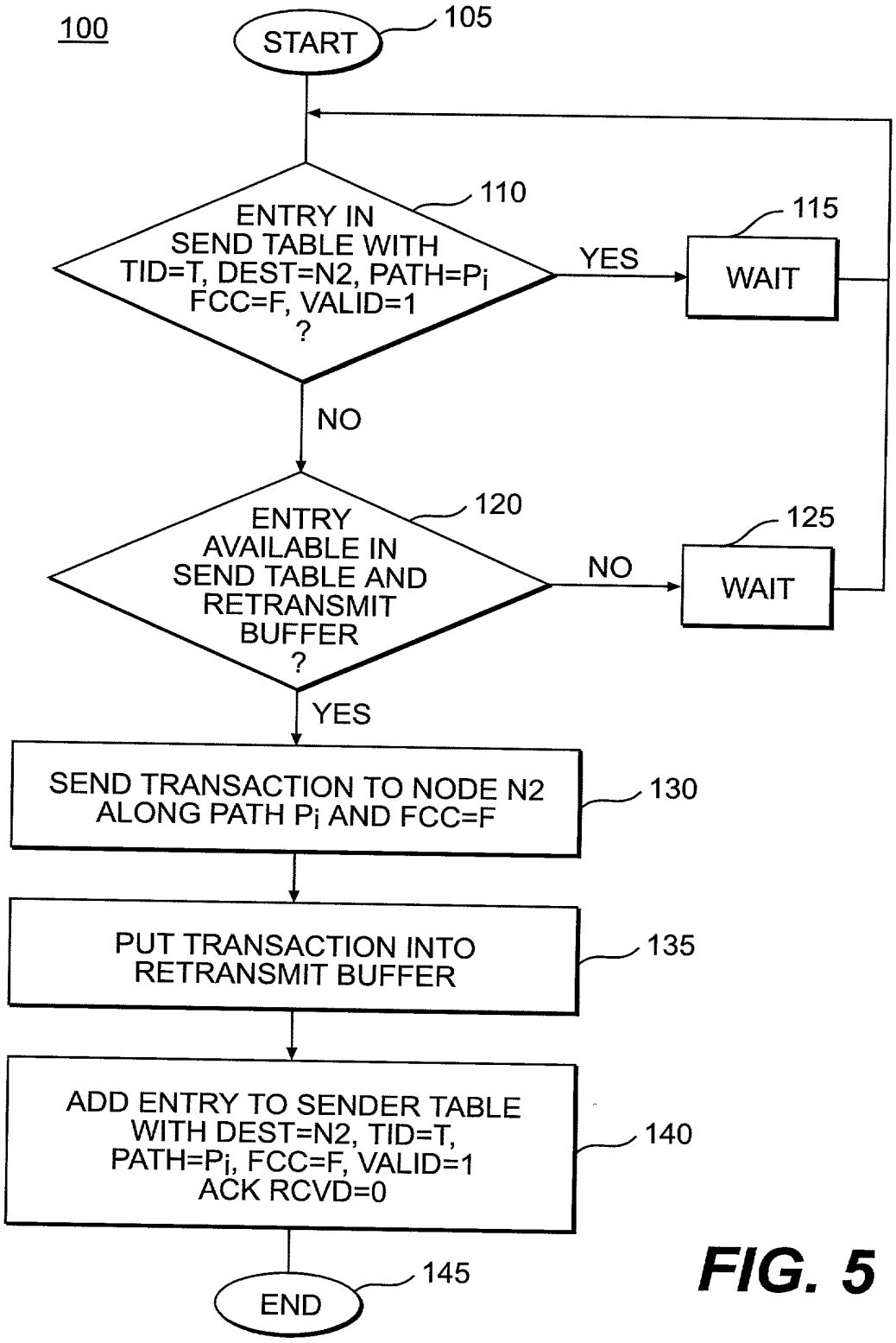

FIG. 5

Docket # 10019854-1

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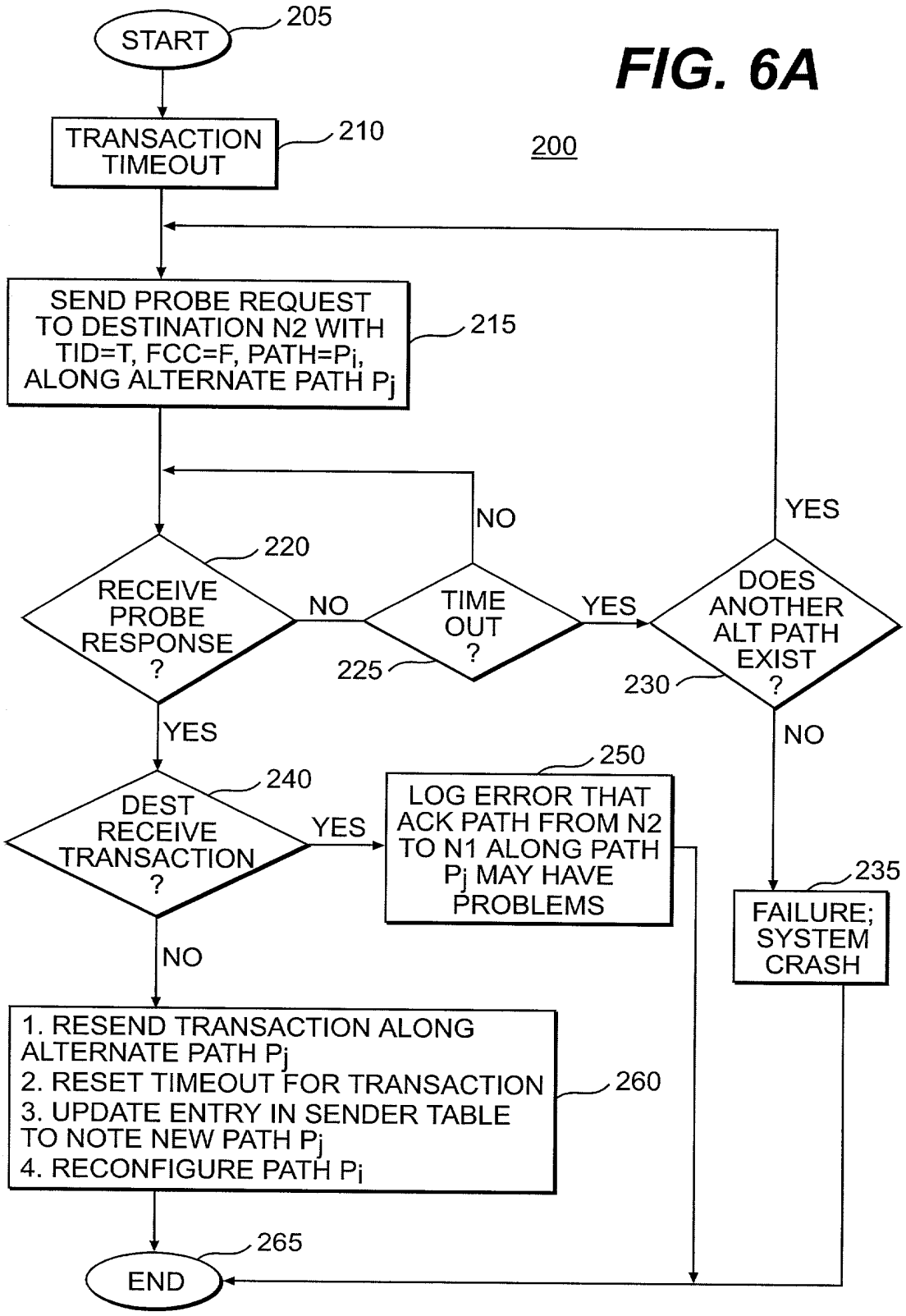
FIG. 6A



20060268856.pdf

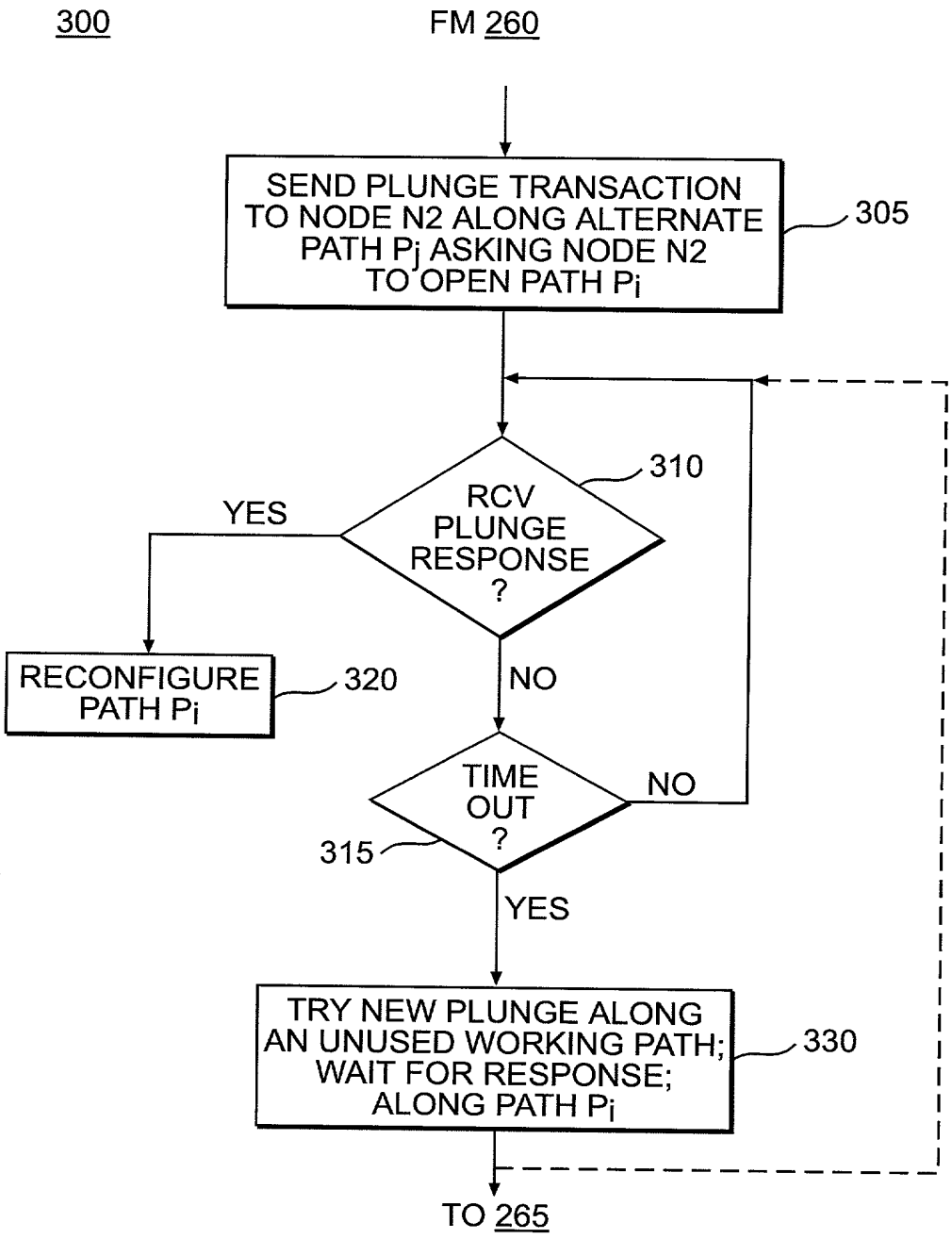


FIG. 6B

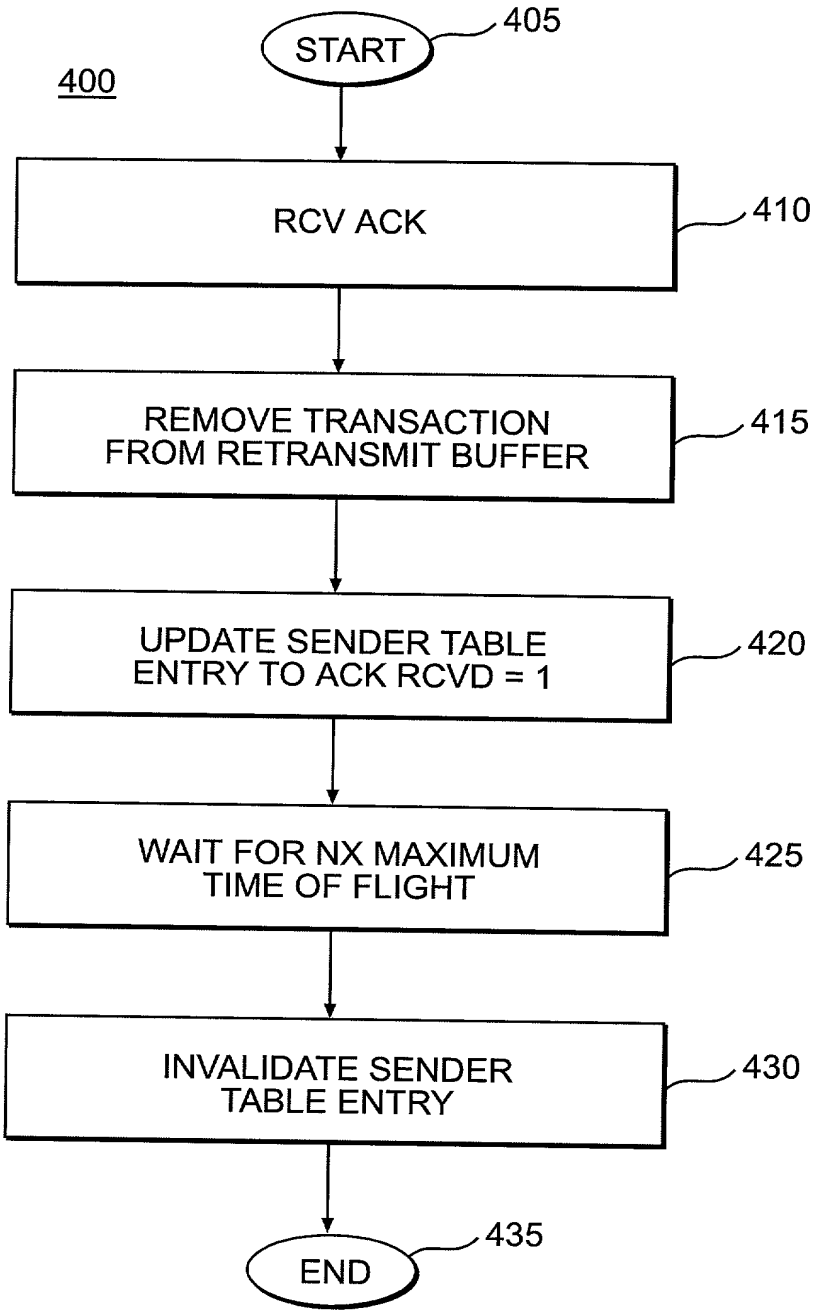

400
START
405
RCV ACK
410
REMOVE TRANSACTION FROM RETRANSMIT BUFFER
415
UPDATE SENDER TABLE ENTRY TO ACK RCVD = 1
420
WAIT FOR NX MAXIMUM TIME OF FLIGHT
425
INVALIDATE SENDER TABLE ENTRY
430
END
435

FIG. 7

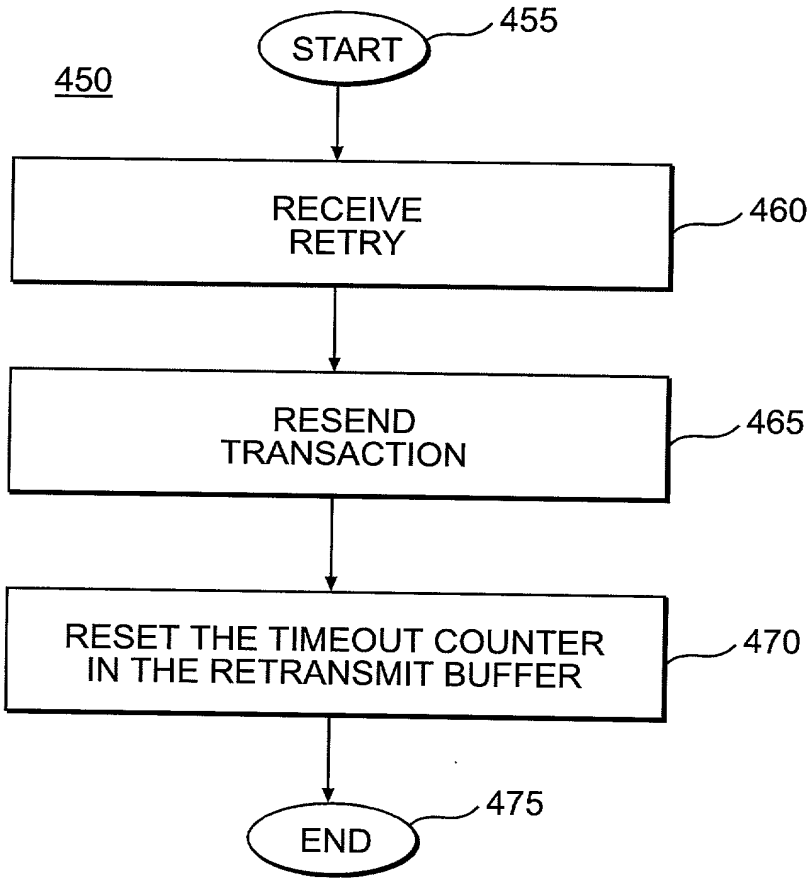

START
455
450
RECEIVE RETRY
460
RESEND TRANSACTION
465
RESET THE TIMEOUT COUNTER IN THE RETRANSMIT BUFFER
470
END
475

FIG. 8

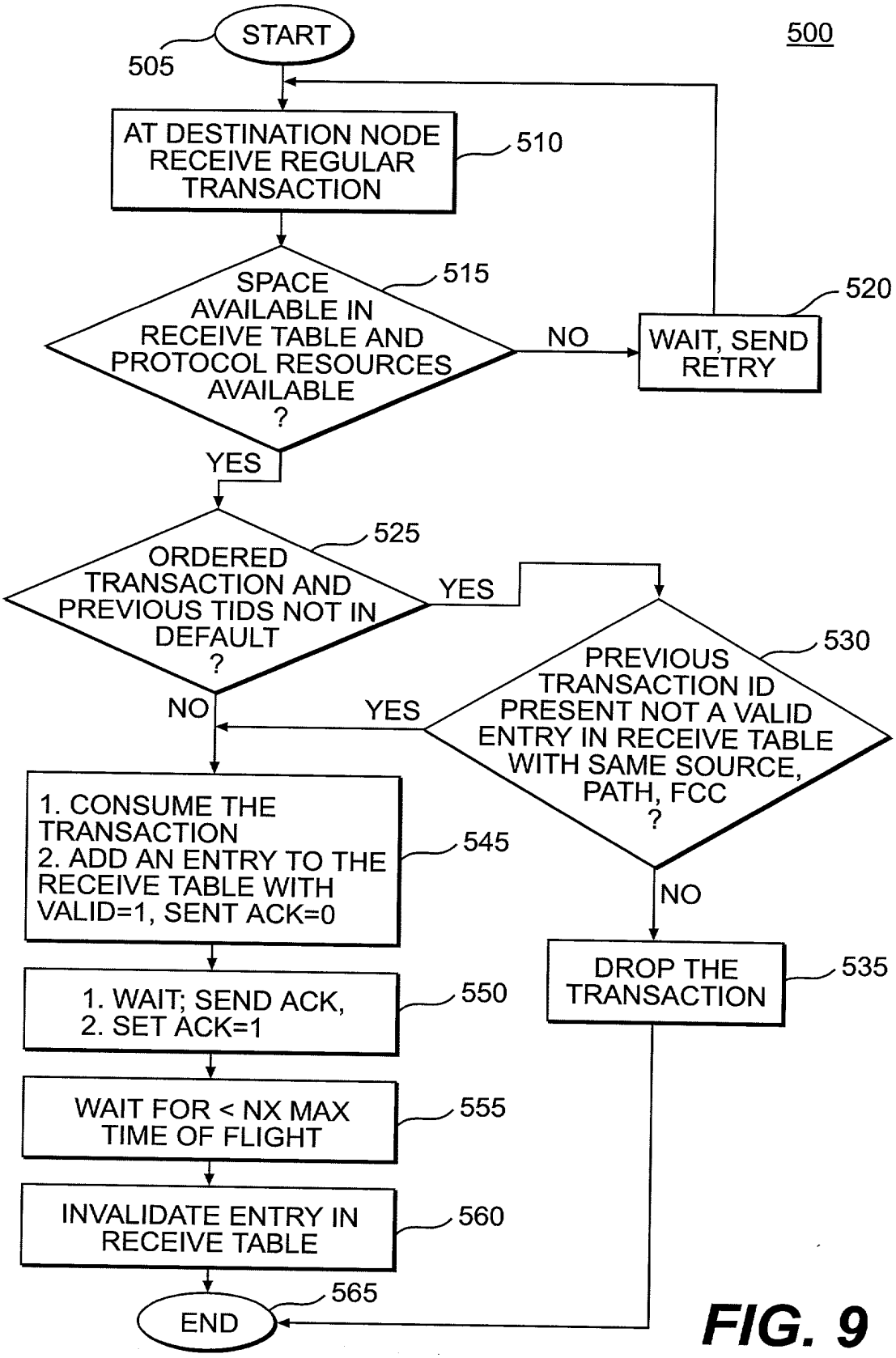

500
START
505
AT DESTINATION NODE RECEIVE REGULAR TRANSACTION
510
SPACE AVAILABLE IN RECEIVE TABLE AND PROTOCOL RESOURCES AVAILABLE ?
515
NO
WAIT, SEND RETRY
520
YES
ORDERED TRANSACTION AND PREVIOUS TIDS NOT IN DEFAULT ?
525
YES
PREVIOUS TRANSACTION ID PRESENT NOT A VALID ENTRY IN RECEIVE TABLE WITH SAME SOURCE, PATH, FCC ?
530
NO
YES
1. CONSUME THE TRANSACTION
2. ADD AN ENTRY TO THE RECEIVE TABLE WITH VALID=1, SENT ACK=0
545
NO
DROP THE TRANSACTION
535
1. WAIT; SEND ACK,
2. SET ACK=1
550
WAIT FOR < NX MAX TIME OF FLIGHT
555
INVALIDATE ENTRY IN RECEIVE TABLE
560
END
565

FIG. 9

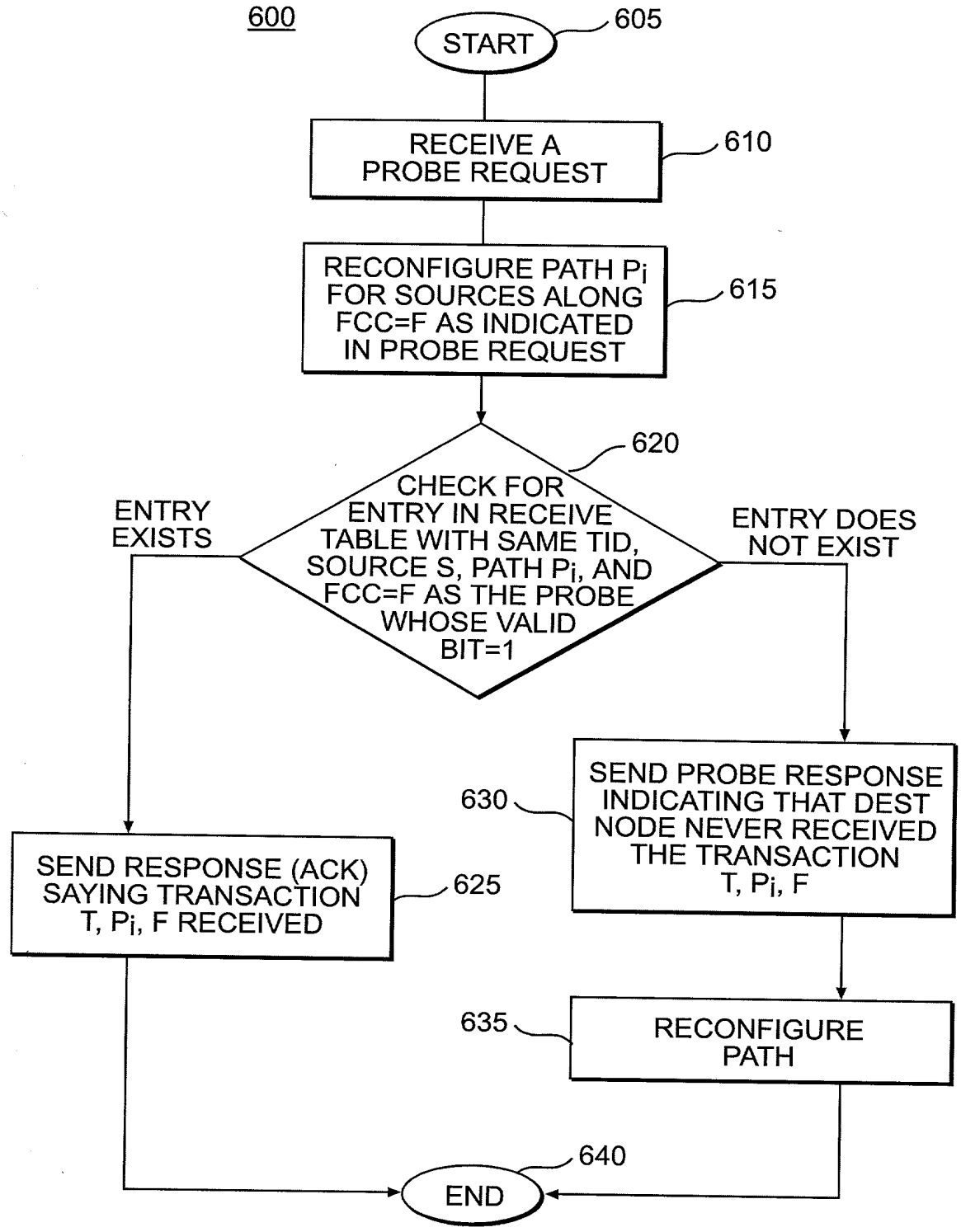

600
START
605
RECEIVE A PROBE REQUEST
610
RECONFIGURE PATH Pi FOR SOURCES ALONG FCC=F AS INDICATED IN PROBE REQUEST
615
CHECK FOR ENTRY IN RECEIVE TABLE WITH SAME TID, SOURCE S, PATH Pi, AND FCC=F AS THE PROBE WHOSE VALID BIT=1
620
ENTRY EXISTS
ENTRY DOES NOT EXIST
SEND RESPONSE (ACK) SAYING TRANSACTION T, Pi, F RECEIVED
625
SEND PROBE RESPONSE INDICATING THAT DEST NODE NEVER RECEIVED THE TRANSACTION T, Pi, F
630
RECONFIGURE PATH
635
END
640

FIG. 10

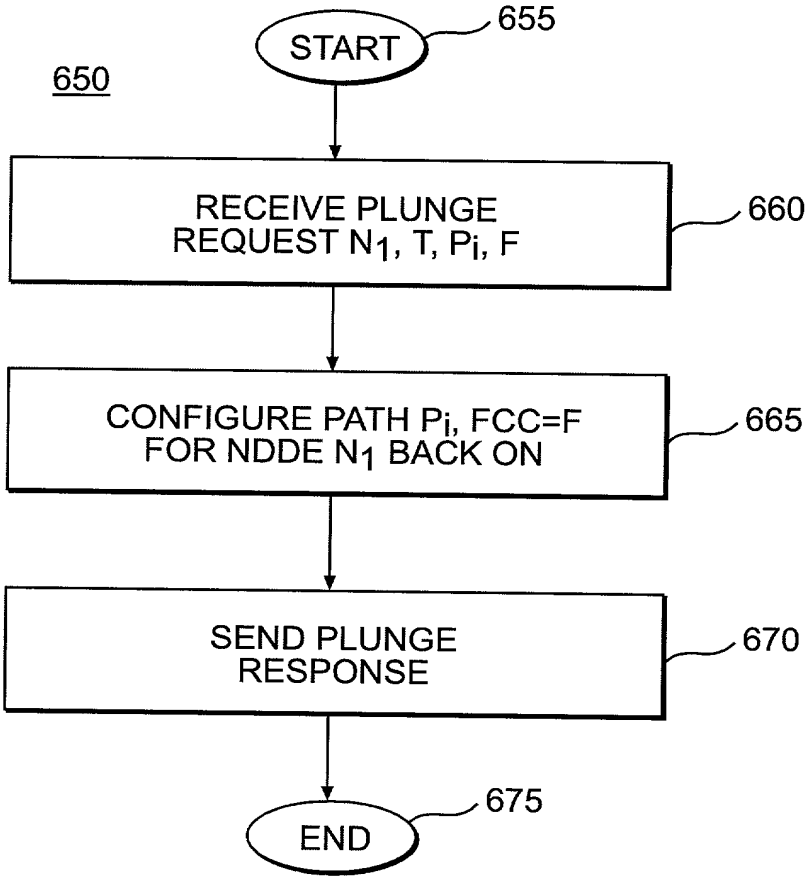

650
START
655
RECEIVE PLUNGE REQUEST N_1, T, P_i, F
660
CONFIGURE PATH P_i, FCC=F FOR NDDE N_1 BACK ON
665
SEND PLUNGE RESPONSE
670
END
675

FIG. 11